

Validation Worksheets - Mercury

Site: _____ QC Level: _____ Project No.: _____

SDG# _____ No. Samples _____ Matrix _____ Lab: _____

Attach Copy of Case narrative, Lab Sample ID pages, and Flagged Data Tables

Analysis Performed (check all that apply): ☐ SW-846 ☐ CLP ☐ ES/ER/TM-16 ☐ Y/P65-9006

Parameter	Criteria	Acceptable	Not Acceptable
Holding Time; Preservative	28 days HNO ₃ to pH < 2 (H ₂ O) 4°C (± 2°C) (H ₂ O and soil)		
Initial Calibration:			
Requirement	Daily, once every 24 hours, and each time instrument is set up		
Levels	A blank and at least 5 calibration standards, one at or below the CRQL		
Frequency	Each time instrument is set up and after CCV failure		
Criteria	Correlation Coefficient ≥ 0.995 %D of all non-zero standards ± 30% of true value y-intercept of curve must be less than CRQL		
ICV/CCV Standards			
Level	ICV – Highest mixed calibration std. CCV – Mid level calibration std.		
Frequency	ICV – Immediately after initial calib. CCV – Every 2 hours, beginning and end of analytical run		
Criteria	85 – 115% recovery		
Blanks			
Level	No contaminants should be found in any blank.		
Frequency	ICB – immediately after ICV CCB – every 2 hours and immediately after CCV Method Blank – 1 per SDG or preparation batch, whichever is more frequent		
Criteria	ICB – No detections CCB – No detections Method blank – No detections		
Duplicate Samples			
Level	Cannot use blank or PE sample		

Parameter	Criteria	Acceptable	Not Acceptable
Frequency	1 DUP per matrix per SDG		
Criteria	Aqueous: 20% RPD when both samples > 5 x CRQL CRQL when 1 or both samples are < 5 x CRQL		
	Soil: 35% RPD when both samples > 5 x CRQL 2 x CRQL when 1 or both samples are < 5 x CRQL		
Matrix Spike Samples			
Level	Cannot use blank or PE sample		
Frequency	1 MS per matrix per SDG or 5%		
Criteria	75 – 125%R when original result is < 4 x concentration of spike added.		
Level IV/D/Definitive Data with Raw Data Note: calculations/transcriptions may be written down in raw data package or on separate paper as proof that they were performed.			
YES NO <input type="checkbox"/> <input type="checkbox"/> Transcriptions checked for 10% of the data (raw vs. summaries)? <input type="checkbox"/> <input type="checkbox"/> Quantitation calculations checked for 10% of ALL data (i.e. calibrations, check standards, spikes, dups, results)?			
Reviewers Signature: _____ Date ____ / ____ / ____			